TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-03-10-04** **Date: 09-05-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.
Address	:	Vidayaranyapura, sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.
Customer's Reference	:	BBMP/EE/BTP/WO/223/2016-17.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-04-18
Sample ID No	:	2017-03-10-04-01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	3-04-2018 to 9-05-2018

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.8	–
2	Finess by Air permeablity method (m^2/kg, Min)	288.5	225m^2/kg, Min
3	Density (gm/cc)	3.1	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-03-10-04** **Date: 09-05-2018**

Sample ID No : **2017-03-10-04-01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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Prepared by
Harshitha

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-30-02** **Date:07-04-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura, sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.
Customer's Reference	:	BBMP/EE/BTP/WO/223/2016-17.
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-04-18
Sample ID No	:	2017-03-30-02-01(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1673	1673	11.2	88.8	90-100
3	20 mm	1290	2963	19.8	80.2	30-70
4	10 mm	1470	4433	29.6	70.4	10-35
5	4.75 mm	430	4863	32.4	67.6	0-5
6	Pan	137	5000	33.3	67	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-30-02** **Date:07-04-2018**

Sample ID No : 2017-03-30-02-01(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.2	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.21	–

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Prepared by
Harshitha

FOR CIVIL Pro.

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-30-02** **07-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura, sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-18
Sample ID No	:	2017-03-30-02-01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	420	420	8.4	91.6	90-100
3	10 mm	2300	2720	54.4	45.6	25-55
4	4.75 mm	2100	4820	96.4	3.6	0-10
5	Pan	180	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-30-02** **DATE: 07-04-18**

Sample ID No : 2017-03-30-02-01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.2	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.51	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.22	_
7	Ten percent fine value(KN)	199.5	_
7	Aggregate crushing Value(%)	23.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent , fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Prepared by
Harshitha

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signature
Quality Manager

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Certificate No.: TC- 5548

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-30-02** **Date: 07-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-18

Sample ID No : 2017-03-30-02-02

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 03-04-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	94	94	9.4	90.6	90-100	90-100	90-100	95-100
3	2.36 mm	140	234	23.4	76.6	60-95	75-100	85-100	95-100
4	1.18 mm	165	399	39.9	60.1	30-70	55-90	75-100	90-100
5	600 micron	200	599	59.9	40.1	15-34	35-59	60-79	80-100
6	300 micron	280	879	87.9	12.1	5-20	8-30	12-40	15-50
7	150 micron	66	945	94.5	5.5	0-10	0-10	0-10	0-15
8	Pan	55	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-30-02** **Date: 07-04-18**

Sample ID No : 2017-03-30-02-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.65	_
2	Specific Gravity	2.56	_
3	Material finer than 75 micron	5.40	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Prepared by
Harshitha

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 19-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-18

Sample ID No : 2017-04-13-04-03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/04/2018	19/04/2018	150.25 X 151.36 X 151.57	22741	8.754	276.4	12.2	12.4
2	PCC	M15	12/04/2018	19/04/2018	149.27 X 149.27 X 150.56	22282	8.695	289.5	13.0	
3	PCC	M15	12/04/2018	19/04/2018	150.98 X 151.97 X 150.52	22945	8.084	279.4	12.2	

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Certificate No.: TC- 5548

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 08-05-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-04-18

Sample ID No : 2017-04-13-04-04

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/04/2018	08/05/2018	150.57 X 150.49 X 149.84	22658	8.549	386.0	17.0	17.4
2	PCC	M15	10/04/2018	08/05/2018	150.66 X 149.19 X 151.45	22477	8.993	404.0	18.0	
3	PCC	M15	10/04/2018	08/05/2018	151.09 X 150.05 X 149.38	22671	8.765	389.2	17.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 19-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-18

Sample ID No : 2017-04-13-04-03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/04/2018	19/04/2018	151.05 X 151.00 X 149.62	22808	8.560	293.5	12.9	12.4
2	PCC	M15	12/04/2018	19/04/2018	149.26 X 149.24 X 149.77	22275	8.994	268.2	12.0	
3	PCC	M15	12/04/2018	19/04/2018	149.40 X 149.29 X 150.25	22304	8.888	276.4	12.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 08-05-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-04-18

Sample ID No : 2017-04-13-04-04

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/04/2018	08/05/2018	150.38 X 151.64 X 151.51	22803	8.138	395.7	17.4	17.6
2	PCC	M15	10/04/2018	08/05/2018	151.60 X 151.47 X 150.99	22964	8.424	407.2	17.7	
3	PCC	M15	10/04/2018	08/05/2018	151.33 X 149.38 X 149.37	22606	8.919	397.1	17.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 19-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara *(P), Bangalore - 560092.*

Customer's Reference : *BBMP/EE/BTP/WO/223/2016-17.*

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-18

Sample ID No : 2017-04-13-04-03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/04/2018	19/04/2018	151.11 X 149.51 X 150.65	22593	8.486	286.8	12.7	12.4
2	PCC	M15	12/04/2018	19/04/2018	150.47 X 150.81 X 149.16	22693	8.975	279.1	12.3	
3	PCC	M15	12/04/2018	19/04/2018	149.76 X 151.46 X 151.04	22682	8.529	278.7	12.3	

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CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-04-13-04** **Date: 08-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura, sub division, BBMP, Bangalore..
Project Name	:	Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.
Customer's Reference	:	BBMP/EE/BTP/WO/223/2016-17.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-18
Sample ID No	:	2017-04-13-04-04
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/04/2018	08/05/2018	149.28 X 149.35 X 151.00	22294	8.165	397.9	17.8	17.9
2	PCC	M15	10/04/2018	08/05/2018	149.11 X 151.13 X 151.67	22535	8.700	404.9	18.0	
3	PCC	M15	10/04/2018	08/05/2018	150.13 X 149.24 X 151.61	22406	8.131	399.2	17.8	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 19-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-18

Sample ID No : 2017-04-13-04-03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/04/2018	19/04/2018	149.34 X 151.28 X 150.86	22592	8.798	275.0	12.2	12.3
2	PCC	M15	12/04/2018	19/04/2018	150.66 X 149.67 X 151.10	22548	8.045	278.6	12.4	
3	PCC	M15	12/04/2018	19/04/2018	150.81 X 149.68 X 151.16	22572	8.502	277.3	12.3	

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Harsitha

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Quality Manager

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Certificate No.: TC- 5548

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08-05-18

Lab ID	:	**CP-2017-04-13-04**
Customer	:	Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura, sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.
Customer's Reference	:	BBMP/EE/BTP/WO/223/2016-17.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-18
Sample ID No	:	2017-04-13-04-04
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/04/2018	08/05/2018	150.07 X 151.85 X 150.88	22788	8.603	403.0	17.7	17.4
2	PCC	M15	10/04/2018	08/05/2018	149.21 X 150.91 X 149.62	22517	8.431	396.1	17.6	
3	PCC	M15	10/04/2018	08/05/2018	149.37 X 150.95 X 149.56	22547	8.388	384.0	17.0	

Note:
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 23-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-04-18

Sample ID No : 2017-04-13-04/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	16/04/2018	23/04/2018	151.69 X 150.75 X 150.41	22867	8.715	418.1	18.3	18.2
2	Drain Concrete	M20	16/04/2018	23/04/2018	151.27 X 149.37 X 150.02	22594	8.347	414.4	18.3	
3	Drain Concrete	M20	16/04/2018	23/04/2018	149.63 X 149.26 X 149.03	22334	8.229	404.4	18.1	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14-05-18

Lab ID	:	**CP-2017-04-13-04**
Customer	:	Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura, sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.
Customer's Reference	:	BBMP/EE/BTP/WO/223/2016-17.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-04-18
Sample ID No	:	2017-04-13-04/02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	14/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	16/04/2018	14/05/2018	151.63 X 151.33 X 151.60	22947	**8.570**	539.4	23.5	23.4
2	Drain Concrete	M20	16/04/2018	14/05/2018	151.03 X 150.35 X 149.47	22707	**8.007**	518.5	22.8	
3	Drain Concrete	M20	16/04/2018	14/05/2018	151.30 X 150.41 X 150.47	22757	**8.964**	543.3	23.9	

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Harsitha

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Authorized Signatory
Quality Manager

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****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 23-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-04-18

Sample ID No : 2017-04-13-04/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	16/04/2018	23/04/2018	149.34 X 149.98 X 151.57	22398	8.029	418.3	18.7	18.6
2	Drain Concrete	M20	16/04/2018	23/04/2018	150.23 X 150.99 X 151.98	22683	8.325	420.4	18.5	
3	Drain Concrete	M20	16/04/2018	23/04/2018	149.13 X 149.29 X 151.79	22263	8.580	417.0	18.7	

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Harsitha

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Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 14-05-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-04-18

Sample ID No : 2017-04-13-04/04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	16/04/2018	14/05/2018	150.20 X 151.46 X 149.06	22750	8.523	531.0	23.3	23.2
2	Drain Concrete	M20	16/04/2018	14/05/2018	151.94 X 151.98 X 149.09	23092	8.061	520.3	22.5	
3	Drain Concrete	M20	16/04/2018	14/05/2018	151.92 X 151.59 X 150.43	23030	8.783	544.6	23.6	

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****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23-04-18

Lab ID	:	**CP-2017-04-13-04**
Customer	:	Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura, sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.
Customer's Reference	:	BBMP/EE/BTP/WO/223/2016-17.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-04-18
Sample ID No	:	2017-04-13-04/05
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	16/04/2018	23/04/2018	150.25 X 150.04 X 150.48	22543	8.554	406.7	18.0	18.2
2	Drain Concrete	M20	16/04/2018	23/04/2018	151.93 X 150.61 X 149.83	22882	8.726	422.7	18.5	
3	Drain Concrete	M20	16/04/2018	23/04/2018	150.03 X 150.68 X 149.41	22607	8.839	409.0	18.1	

Note:
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Harsitha

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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 14-05-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-04-18

Sample ID No : 2017-04-13-04/06

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	16/04/2018	14/05/2018	149.63 X 150.10 X 149.40	22459	8.816	526.9	23.5	23.1
2	Drain Concrete	M20	16/04/2018	14/05/2018	151.79 X 149.13 X 149.21	22637	8.156	509.1	22.5	
3	Drain Concrete	M20	16/04/2018	14/05/2018	149.92 X 151.28 X 151.26	22679	8.873	527.4	23.3	

Note:
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Harsitha

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Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 28-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-04-18

Sample ID No : 2017-04-13-04/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/04/2018	28/04/2018	149.08 X 150.85 X 150.46	22488	8.301	408.0	18.1	18.2
2	Drain Concrete	M20	21/04/2018	28/04/2018	149.39 X 150.90 X 151.94	22542	8.173	411.3	18.2	
3	Drain Concrete	M20	21/04/2018	28/04/2018	150.36 X 149.24 X 149.47	22439	8.087	407.8	18.2	

Note:
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Prepared by
Harsitha

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Quality Manager

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Certificate No.: TC- 5548

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 19-05-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-04-18

Sample ID No : 2017-04-13-04/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/04/2018	19/05/2018	150.74 X 151.67 X 151.95	22862	8.382	529.9	23.2	23.1
2	Drain Concrete	M20	21/04/2018	19/05/2018	151.44 X 151.15 X 150.14	22890	8.714	520.5	22.7	
3	Drain Concrete	M20	21/04/2018	19/05/2018	151.38 X 149.37 X 151.42	22611	8.765	530.3	23.5	

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Prepared by
Harsitha

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Authorized Signatory
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 28-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-04-18

Sample ID No : 2017-04-13-04/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the . sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/04/2018	28/04/2018	149.79 X 150.30 X 150.32	22513	8.556	413.1	18.3	18.3
2	Drain Concrete	M20	21/04/2018	28/04/2018	150.53 X 151.06 X 151.53	22739	8.858	415.0	18.3	
3	Drain Concrete	M20	21/04/2018	28/04/2018	149.72 X 149.47 X 151.36	22379	8.644	410.6	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 19-05-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-04-18

Sample ID No : 2017-04-13-04/04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/04/2018	19/05/2018	150.21 X 150.16 X 150.00	22557	8.624	540.1	23.9	23.2
2	Drain Concrete	M20	21/04/2018	19/05/2018	150.25 X 149.95 X 151.79	22530	8.158	505.1	22.4	
3	Drain Concrete	M20	21/04/2018	19/05/2018	151.11 X 150.23 X 150.65	22701	8.932	529.0	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 28-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-04-18

Sample ID No : 2017-04-13-04/05

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/04/2018	28/04/2018	150.26 X 149.61 X 150.02	22480	8.149	412.5	18.4	18.3
2	Drain Concrete	M20	21/04/2018	28/04/2018	151.60 X 149.90 X 150.43	22723	8.360	414.0	18.2	
3	Drain Concrete	M20	21/04/2018	28/04/2018	150.78 X 150.60 X 149.89	22708	8.417	418.6	18.4	

Note:
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Certificate No.: TC- 5548

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-13-04** **Date: 19-05-18**

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-04-18

Sample ID No : 2017-04-13-04/06

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/04/2018	19/05/2018	150.99 X 149.58 X 150.34	22584	8.821	523.5	23.2	22.9
2	Drain Concrete	M20	21/04/2018	19/05/2018	149.52 X 150.30 X 150.30	22474	8.936	507.4	22.6	
3	Drain Concrete	M20	21/04/2018	19/05/2018	151.69 X 149.50 X 150.16	22678	8.306	522.9	23.1	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2017-04-25-04** **Date: 24-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-18
Sample ID No	:	2017-04-25-04/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	21-05-18
Oven Dry Weight	:	11585 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	335	335	2.89	97.11	95-100
22.4	2259	2594	22.39	77.61	60-80
11.2	2171	4765	41.13	58.87	40-60
4.75	2258	7023	60.62	39.38	25-40
2.36	1602	8625	74.45	25.55	15-30
0.6	610	9235	79.72	20.28	8-22
0.075	2150	11385	98.27	1.73	0-5

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2017-04-25-04** **Date: 24-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-18
Sample ID No	:	2017-04-25-04/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	21-05-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.2%	
Combined Flakiness and Elongation Index for WMM	23.7%	

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Prepared By:
Harshitha

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Date: 21-05-18

Lab ID	:	**CP-2017-04-25-04**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-18
Sample ID No	:	2017-04-25-04/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	21-05-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.0	305.4
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.3	70.7
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	235.2	234.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.6
5	Aggregate impact value	(B/A)*100	22.7	23.1
6	Aggregate impact value (Mean of two tests)	Pecentage	22.9	

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-04-29-02** **Date: 01-06-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-18
Sample ID No	:	2017-04-29-02/01
Type of Mix	:	Coarse Aggregate for SDBC (Semi Dense Bituminous Concrete)
Date of test	:	29-05-18

Result:

Flakiness Index	8.9%
Elongation Index	11.7%
Combined Flakiness & Elongation Index for SDBC	20.6%

Comments:

Maximum allowable Flakiness & Elongation Index For SDBC is 30 %

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TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID	:	**CP-RW-2017-04-29-02** **Date: 01-06-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-18
Sample ID No	:	2017-04-29-02/01
Type of Mix	:	Coarse Aggregate for SDBC (Semi Dense Bituminous Concrete)
Date of test	:	29-05-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	308.6	308.1
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.3	70.7
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	238.9	236.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.6
5	Aggregate impct value	(B/A)*100	22.46	22.95
6	Aggregate impct value (Mean of two tests)		22.70	

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-04-29-02** **Date: 01-06-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-18
Sample ID No	:	2017-04-29-02/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	29-05-18

The results of the tests conducted on the Semi Dense Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-16
1	Marshal Stability at 60°C, KN	9.98	10.06	8.2KN(min)
2	Marshal flow at 60°C, mm	3.66	3.72	2-4
3	Percent air Voids	4.79	4.28	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.21	14.35	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.98	71.5	65-75
6	Density, g/cc	2.25	2.24	–

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-04-29-02** **Date: 01-06-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-18
Sample ID No	:	2017-04-29-02/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	29-05-18

Type of Binder	:	80/100
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.5	Minimum Retained Coating 95%
2	99.0	1.0		
3	98.5	1.5		

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-RW-2017-05-04-01**	**Date: 08-06-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division.	
Agency	:	Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.	
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	06-06-18	
Sample ID No	:	2017-05-04-01/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	06-06-18	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	475	474
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.00	5.20
4	Average percentage	%	5.10	

FOR CIVIL Pro.

Prepared By:
Harshitha

R KARTHIK RECHAN
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Quality Manager

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Lab ID : **CP-RW-2017-05-04-01** **Date: 08-06-18**

Sample ID No : **2017-05-04-01/01**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 475

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	29	29	6.1	93.9	90-100
4.75	238	267	56.2	43.8	35-51
2.36	85	352	74.1	25.9	24-39
1.18	42	394	82.9	17.1	15-30
0.3	27	421	88.6	11.4	9-19
0.075	32	453	95.4	4.6	3-8

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 474

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	26	26	5.5	94.5	90-100
4.75	225	251	53.0	47.0	35-51
2.36	82	333	70.3	29.7	24-39
1.18	46	379	80.0	20.0	15-30
0.3	54	433	91.4	8.6	9-19
0.075	22	455	96.0	4.0	3-8

Note:-

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